

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (currently amended) A method to detect security tags, comprising:

establishing an interrogation zone using at least two signals operating at different frequencies;

monitoring said interrogation zone to detect a plurality of security tags, with ~~each~~
a first type of security tag responsive to at least one of said signals a first signal at a first
frequency and a second type of security tag responsive to at least a second signal at a
second frequency;

determining whether to generate an alarm if a security tag is detected by receiving
a third signal comprising a combination of said first and second signals from a first
security tag of said first type and filtering said third signal to remove frequency
components of said first signal; and

generating said alarm in accordance with said determination.
2. (currently amended) The method of claim 1, wherein said establishing comprises:

transmitting a said first signal at a said first frequency; and

transmitting a said second signal at a said second frequency.

3. (original) The method of claim 1, wherein said first frequency operates at approximately 915 Megahertz, and said second frequency operates at approximately 111.5 Kiloherzt.
4. (currently amended) The method of claim 2 1, wherein said monitoring comprises receiving a said third signal at a third frequency from a said first security tag in response to said first and second signals, ~~wherein said third signal is a combination of said first and second signals.~~
5. (currently amended) The method of claim ~~4~~ 1, wherein said determining comprises:
 - ~~filtering out said first signal from said third signal;~~
 - determining whether said second signal remains after said filtering; and
 - sending an alarm signal if said second signal remains after said filtering.
6. (original) The method of claim 5, wherein said generating comprises:
 - receiving said alarm signal; and
 - triggering said alarm in response to said alarm signal.
7. (currently amended) The method of claim 2 1, wherein said monitoring comprises receiving a fourth signal from a second security tag of said second type in response to said second signal, said fourth signal representing security tag information stored by said second security tag.

8. (original) The method of claim 7, wherein said determining comprises:
 - decoding said security tag information from said fourth signal, said security tag information comprising an identifier for said second security tag;
 - comparing said identifier to a list of valid identifiers;
 - determining whether said identifier is valid based on said comparison; and
 - sending an alarm signal if said identifier is not valid.
9. (original) The method of claim 8, wherein said generating comprises:
 - receiving said alarm signal; and
 - triggering said alarm in response to said alarm signal.
10. (currently amended) A method to detect security tags, comprising:
 - receiving a first and second signal having a first and second frequency, respectively, at a first security tag of a first type;
 - receiving said second signal at a second security tag of a second type;
 - transmitting a third signal comprising a combination of said first and second signals from said first security tag to a reader system in response to said first and second signals, said reader system configured to filter said third signal to remove frequency components of said first signal; and
 - transmitting a fourth signal from said second security tag in response to said second signal, with said fourth signal representing an identifier for said second security tag and a first code.

11. (original) The method of claim 10, further comprising:
receiving a fifth signal in response to said fourth signal, said fifth signal
representing said identifier for said second security tag and a second code;
storing said second code at said security tag;
receiving said second signal at said second security tag; and
transmitting a sixth signal from said second security tag in response to said
second signal, with said sixth signal representing said identifier for said second security
tag and said second code.

12. (original) The method of claim 10, wherein said first frequency operates at
approximately 915 Megahertz, and said second frequency operates at approximately
111.5 Kiloherzt.

13. (canceled)

14. (currently amended) A security system, comprising:
at least one antenna;
a transceiver to connect to said antenna and establish an interrogation zone;
a first security tag of a first type to communicate with said transceiver, said first
security tag responsive to at least a first signal at a first frequency;
a second security tag of a second type to communicate with said transceiver, said
second security tag responsive to at least a second signal at a second frequency; and

a reader system to connect to said transceiver and to determine whether either security tag is within said interrogation zone by receiving a third signal comprising a combination of said first and second signals from said first security tag and filtering said third signal to remove frequency components of said first signal.

15. (original) The security system of claim 14, wherein said reader system is configured to send an alarm signal if either security tag is within said interrogation zone.

16. (original) The security system of claim 15, wherein said security system further comprises an alarm system to connect to said reader system, said alarm system to receive said alarm signal and provide an alarm in response to said alarm signal.

17. (original) The security system of claim 14, wherein said second security tag is a Radio Frequency Identification (RFID) tag, said RFID tag further comprising:

an identification module to provide an identifier for said second security tag; and
a transmitter to send a signal with said identifier to said transceiver.

18. (original) The security system of claim 14, wherein said first security tag is a radio frequency, tag.

19. (original) The security system of claim 14, further comprising a deactivation module to deactivate said first and second security tags.

20. (currently amended) A security system, comprising:
- at least one antenna;
 - a transceiver to connect to said antenna and establish an interrogation zone using at least a first signal at a first frequency and a second signal at a second frequency; and
 - a reader system to connect to said transceiver and configured to detect different security tags within said interrogation zone by receiving a third signal comprising a combination of said first and second signals and filtering said third signal to remove frequency components of said first signal.
21. (original) The security system of claim 20, wherein one of said security tags is a Radio Frequency Identification (RFID) security tag, and one of said security tags is a Radio Frequency (RF) security tag.
22. (currently amended) The security system of claim 20, wherein said reader system comprises:
- a filter to filter out said first signal from said third signal;
 - a detector to determine if said second signal is present in said filtered signal;
 - a decoder module to decode ~~said~~ a unique identifier from ~~said~~ a fourth signal received in response to said second signal; and
 - an event module to generate an event signal in response to ~~a signal from~~ said detector[,] or said decoder module.

23. (original) The security system of claim 20, further comprising an alarm system to receive said event signal and to activate an alarm in response to said event signal.

24. (original) The security system of claim 22, further comprising an inventory control system to receive said event signal and store information associated with said unique identifier.

25. (currently amended) The security system of claim 22, further comprising a deactivation module to deactivate ~~either said first or second~~ at least one of said security tags.

26. (currently amended) An article comprising:

a storage medium;

said storage medium including stored instructions that, when executed by a processor, result in detecting security tags by establishing an interrogation zone using at least two signals operating at different frequencies, monitoring said interrogation zone to detect a plurality of security tags, with ~~each~~ a first type of security tag responsive to at least ~~one of said signals~~ a first signal at a first frequency and a second type of security tag responsive to at least a second signal at a second frequency, determining whether to generate an alarm if a security tag is detected by receiving a third signal comprising a combination of said first and second signals from a first security tag of said first type and filtering said third signal to remove frequency components of said first signal, and generating said alarm in accordance with said determination.

27. (currently amended) The article of claim 26, wherein the stored instructions, when executed by a processor, further result in said establishing by transmitting a said first signal at a said first frequency, and transmitting a said second signal at a said second frequency.

28. (currently amended) The article of claim ~~27~~ 26, wherein the stored instructions, when executed by a processor, further result in said monitoring by receiving a said third signal at a third frequency from a said first security tag in response to said first and second signals, ~~wherein said third signal is a combination of said first and second signals.~~

29. (currently amended) The article of claim ~~28~~ 26, wherein the stored instructions, when executed by a processor, further result in ~~said determining by filtering out said first signal from said third signal,~~ determining whether said second signal remains after said filtering, and sending an alarm signal if said second signal remains after said filtering.

30. (original) The article of claim 29, wherein the stored instructions, when executed by a processor, further result in said generating by receiving said alarm signal, and triggering said alarm in response to said alarm signal.

31. (currently amended) The article of claim ~~27~~ 26, wherein the stored instructions, when executed by a processor, further result in said monitoring by receiving a fourth

signal from a second security tag of said second type in response to said second signal,
said fourth signal representing security tag information stored by said second security tag.

32. (original) The article of claim 31, wherein the stored instructions when executed by a processor, further result in said determining by decoding said security tag information from said fourth signal, said security tag information comprising an identifier for said second security tag, comparing said identifier to a list of valid identifiers, determining whether said identifier is valid based on said comparison, and sending an alarm signal if said identifier is not valid.

33. (original) The article of claim 32, wherein the stored instructions, when executed by a processor, further result in said generating by receiving said alarm signal, and triggering said alarm in response to said alarm signal.